

To: CN=Jose Zambrana/OU=DC/O=USEPA/C=US@EPA[]
Cc: CN=Alice Gilliland/OU=CI/O=USEPA/C=US@EPA;CN=Ramona
Trovato/OU=DC/O=USEPA/C=US@EPA[]; N=Ramona Trovato/OU=DC/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Cynthia Sonich-Mullin/OU=CI/O=USEPA/C=US
Sent: Fri 11/2/2012 12:00:30 AM
Subject: Re: Fw: Answers to Your Questions
[lwflw2a.pdf](#)
[Design Guidelines for Conventional Pump and Treat Systems.pdf](#)
[ATTS117N.pdf](#)
[EQASOP-GW001.pdf](#)
[lsgspc.pdf](#)
[40001I6P.pdf](#)
[rcra_gw.pdf](#)
[SF Field Ops Methods.pdf](#)

Here's the last one:

Cynthia Sonich-Mullin
Director
National Risk Management Research Laboratory
Cincinnati, Ohio 45268
Ofc: 513-569-7923
Cell: 513-560-5043

From: Jose Zambrana/DC/USEPA/US
To: Alice Gilliland/CI/USEPA/US@EPA, Cynthia Sonich-Mullin/CI/USEPA/US@EPA
Cc: Ramona Trovato/DC/USEPA/US@EPA
Date: 11/01/2012 05:11 PM
Subject: Re: Fw: Answers to Your Questions

i've found all the documents save one

jose

José L. Zambrana, Jr., Ph.D., Physical Scientist

Special Assistant
NEJAC Research Workgroup, DFO
Office of Research & Development (ORD)

202-564-5192 (office)
202-779-1416 (cell)

From: Jose Zambrana/DC/USEPA/US
To: Cynthia Sonich-Mullin/CI/USEPA/US@EPA, Alice Gilliland/CI/USEPA/US@EPA

Date: 11/01/2012 04:36 PM
Subject: Fw: Answers to Your Questions

sorry - should have sent this earlier

jose

José L. Zambrana, Jr., Ph.D., Physical Scientist

Special Assistant
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----- Forwarded by Jose Zambrana/DC/USEPA/US on 11/01/2012 04:36 PM -----

From: Barnes Johnson/DC/USEPA/US
To: "Dr. Jose Zambrana" <Zambrana.Jose@epamail.epa.gov>
Cc: "Ramona Trovato" <Trovato.Ramona@epamail.epa.gov>
Date: 10/30/2012 09:58 AM
Subject: Fw: Answers to Your Questions

Dear Jose,

Attached are references that are relevant to the Qs at hand and may be of some help if you are not aware of them already. I know the first one is available by searching on google, but if you have difficulty getting any of these or want to discuss these further please let me know.

Take care,
Barnes

Sent by EPA Wireless E-Mail Services

----- Original Message -----

From: Matthew Charsky
Sent: 10/26/2012 11:12 AM EDT
To: Barnes Johnson
Cc: Helen Dawson
Subject: Answers to Your Questions
Hi Barnes,

Sorry for the slow reply, but because some of these references are very old I checked with the Ada and Las Vegas labs to see if I captured the most recent documents.

Here are the answers to your questions:

1) What technical guidance documents do we have on sampling low yield wells?

Two groundwater issue papers from ORD:

Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, April 1996, EPA540/S-95/504

Design Guidelines for Conventional Pump and Treat Systems, September 1997, EPA540/S-97/504

Ada Lab also has:

Standard Operating Procedures for Low Stress (Low Flow)/ Minimal Drawdown Ground Water Sample Collection (Puhls/Barcelona), epa.gov/region9/qa/pdfs/finalsopls1217.pdf

Region 1 and Region 2 also have:

Low Stress (low flow) Purging and Sample Procedure for the Collection of Ground Water Samples from Monitoring Wells, July 30, 1996 revised January 19, 2010

Ground Water Sampling procedures Low Stress (low flow) Purging and Sampling. March 16, 1998

Just to let you know, in 2011 ASTM withdrew the following document:

Standard Practice for Low-Flow Purging and Sampling for Wells and Devices Used for Ground Water Quality Investigations, ASTM D6771-02

2) What technical guidance documents do we have on well casing materials?

One groundwater issue paper from ORD:

The Effects of Well Casing Material on Ground Water-Quality, October 1991, EPA540/4-91/005

One Superfund document:

A Compendium of Superfund Field Operating Methods, December 1987a, EPA/ 540/P-87/001

can't find

One RCRA document:

RCRA Ground-Water Monitoring: Draft Technical Guidance, November 1992

Any follow-up, let me know.

Matt
603-8777